

1/2" COMPACT AIR TWIN HAMMER IMPACT WRENCH

Model 94802

ASSEMBLY AND OPERATING INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.



3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our Web site at <http://www.harborfreight.com>

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

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For technical questions and replacement parts, please call 1-800-444-3353.

Specifications

Maximum Torque	230 ft-lb
Drive Size	1/2"
Air Inlet	1/4" - 18 NPT
Recommended Air Pressure	90 PSI
BPM	1089
Air Consumption	7 SCFM


Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered compressors in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, extension cords, or air hoses.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7.  **Use eye and ear protection.** Always wear ANSI-approved impact safety goggles and hearing protection. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI-approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines or air hoses.

9. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords and air hoses periodically and, if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times.
10. **Disconnect air supply.** Disconnect air hose when not in use.
11. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before plugging it in.
12. **Avoid unintentional starting.** Be sure the trigger is released when not in use and before plugging in. Do not carry any tool with your finger on the trigger, whether it is plugged in or not.
13. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
14. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
15. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
16. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
17. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels if taking prescription medicine to determine if your judgement or reflexes are impaired while taking drugs. If there is any doubt, do not operate the Wrench.
18. **Use proper size and type extension cord.** If an extension cord is required, it must be of the proper size and type to supply the correct current to the compressor without heating up. Otherwise, the extension cord could melt and catch fire, or cause electrical damage to the compressor. Check your air compressor's manual for the appropriate size cord.
19. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.
20. **Compressed air only.** Use clean, dry regulated, compressed air at 90 PSI. Never use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.
21. **This Impact Wrench should only be used with impact sockets and extensions.** Using any other accessories can cause the accessories to break, causing permanent damage to the unit and severe injury to the operator, property, or bystanders.

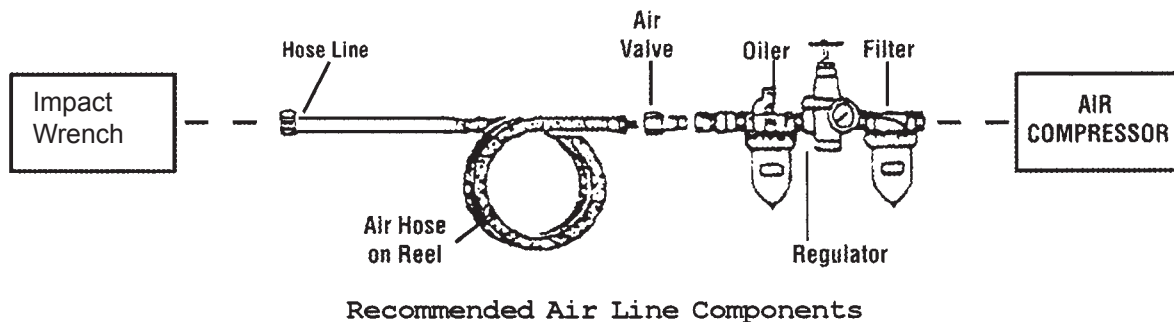
Note: Performance of the compressor (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking, check to make sure the parts listed on page 8 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

Operation



For best service you should incorporate an oiler, regulator, and inline filter, as shown in the diagram above. Hoses, couplers, oilers, regulators, and filters are all available at Harbor Freight Tools.

1. You will need to prepare a $\frac{1}{4}$ " air connector (not included) to connect to the Inlet (31) on the Impact Wrench. First, wrap the $\frac{1}{4}$ " air connector with pipe thread seal tape before threading it into the Inlet (31). Connect the $\frac{3}{8}$ " ID Air Source Hose to a quick connect coupler (not included), and then to the Impact Wrench.

Note: If you are not using an automatic oiler system, before operation, add a few drops of Pneumatic Tool Oil to the airline connection. Add a few drops more after each hour of continual use.

2. Set the air pressure on the regulator to 90 PSI. **Do not exceed the recommended air pressure of 90 PSI.**
3. Check the air connection for leaks. Disconnect from the air source.

Operation (continued)

Refer to **FIGURES 1** through **3** on page 6, and the Assembly Drawing on page 8.

Note: Turn off your air compressor and disconnect the air hose when you are changing sockets. After you attach the socket, attach the air hose and turn the air compressor on.

4. Select the appropriate size 1/2" drive impact socket for your needs.
5. Push and snap the socket (not included) onto the Anvil (6).
6. To operate the Regulator Knob (45), follow the directions in **FIGURE 2** on page 6.

Note: There are two different forward speeds

7. Tighten the nut as tight as you can by hand.
8. Place the socket (not included) over the nut you wish to tighten.

Warning!! This Impact Wrench supplies powerful torque and is designed to be operated with two hands. Failure to operate the Impact Wrench with two hands may result in serious injury.

9. Grip the Impact Wrench firmly with two hands and gently squeeze the Trigger (20).

Note: If the Impact Wrench cannot tighten the nut to your satisfaction, do not raise the air pressure on the compressor over 90 PSI. Pressures above 90 PSI will strip the workpiece and damage the tool, potentially causing the tool to fail, causing serious injury. Use other appropriate methods and tools to tighten the nut.

10. When the nut is tightened, release the Trigger (20). Turn off the air compressor and disconnect the hose.
11. If available, check the recommended torque specification for the nut. Use a torque wrench to tighten the nut to the proper setting after using the Impact Wrench.

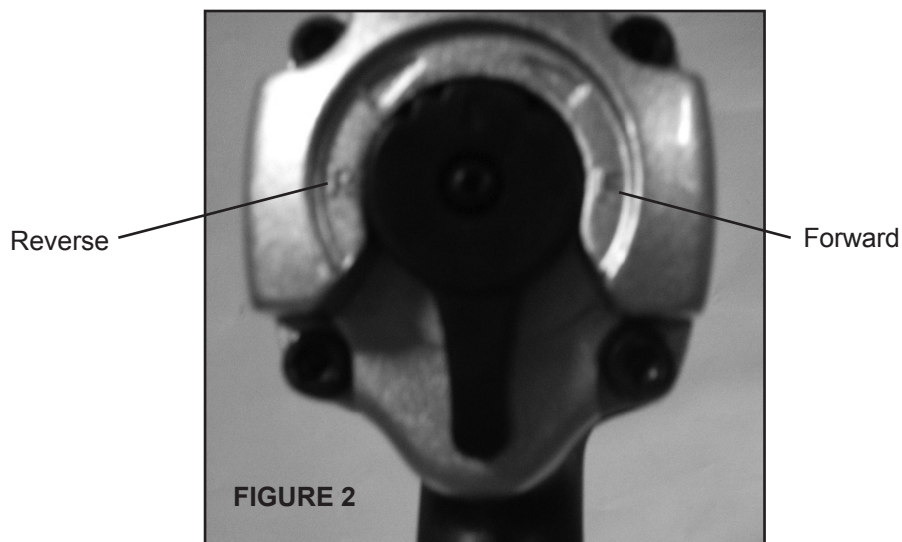
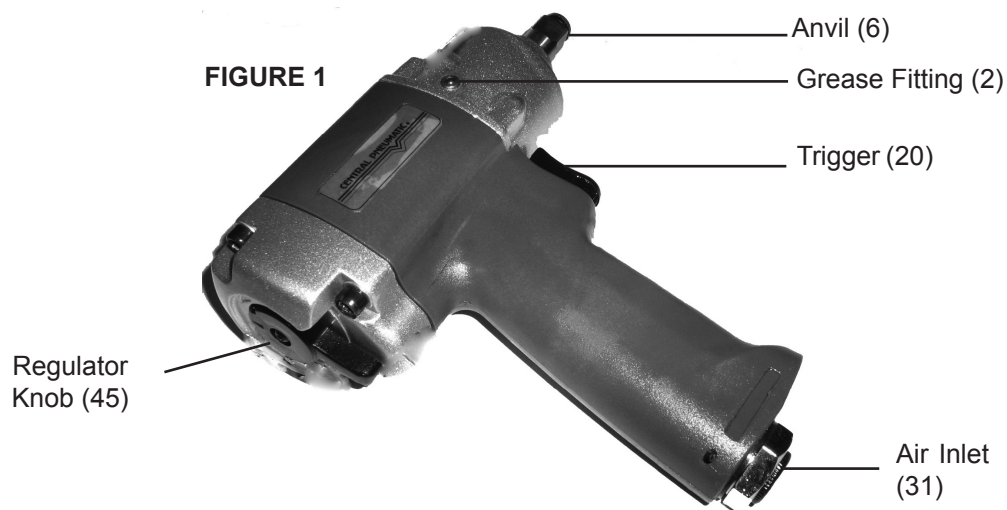
Loosening

Note: Set the Reverse Valve (38) so that the anvil turns counterclockwise (reverse).

12. Place the socket (not included) over the nut you wish to loosen.
13. Grip the Impact Wrench firmly with two hands and gently squeeze the Trigger (20).
Note: If the Impact Wrench cannot loosen the nut, do not raise the air pressure on the compressor over 90 PSI. Do not attempt to loosen the nut with the Impact Wrench. Use other appropriate methods and tools to loosen the nut.
14. When the nut is loosened, release the Trigger (20). Turn off the air compressor and disconnect the hose.
15. If needed, remove the nut from the socket.

Maintenance

1. Make sure your Impact Wrench is disconnected from the air hose before attempting any maintenance.
2. Wipe the Impact Wrench down with a lint free cloth after each use.
3. Make sure the Anvil (6) is clear of dirt or debris. If possible, spray it with compressed air before each use.
4. If you do not use an inline oiler/filter system, lubricate the tool daily by holding it so that the Air Inlet (31) is facing up. Squeeze the Trigger (20), and place one or two drops of oil into the Air Inlet (31). Squeezing the Trigger (20) allows the oil to circulate in the motor.



Turn the Regulator Knob (45) for more air flow and more power.
Turn the Knob to the right for Forward; turn left for Reverse.

Parts List

Item	Description	Qty.
1	Hammer Case	1
2	Grease Fitting	1
3	Hammer Case Bushing	1
4	Socket Retainer	1
5	O-ring 8X1.8	1
6	Standard Anvil	1
7	Hammer Pin	2
8	Hammer	2
9	Hammer Frame	1
10	End Plate Gasket	1
11	Housing	1
12	Rear Rotor Bearing	1
13	Front End Plate	1
14	Cylinder	1
15	Throttle Lever Pin 4X12	3
16	Rotor Blade	6
17	Rotor	1
18	Rear End Plate	1
19	Rear Rotor Bearing	2
20	Trigger	1
21	O-ring 3X1.15	1
22	Spring	1
23	Throttle Lever Pin 3X18	1

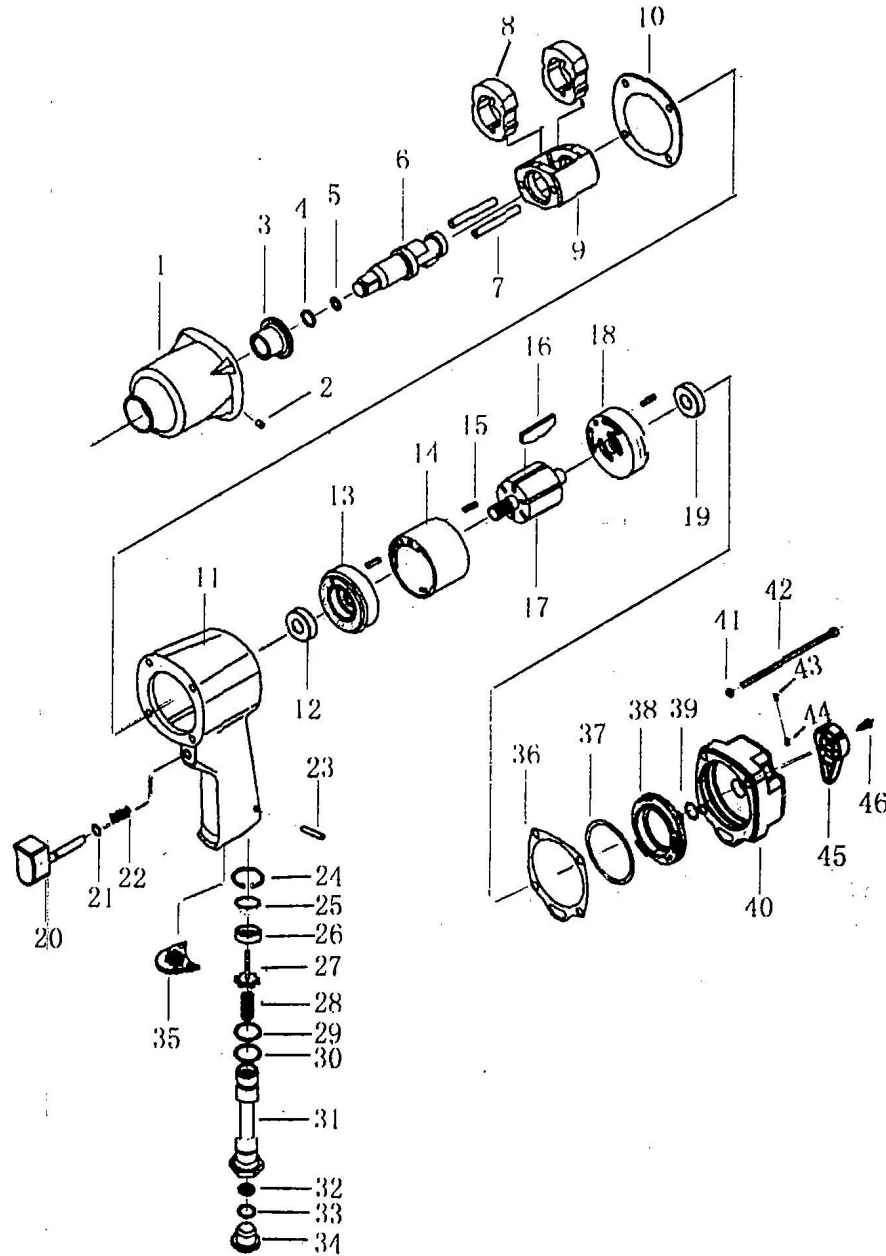
Item	Description	Qty.
24	Rear Rotor Bearing Retainer	1
25	Reverse Valve Bushing	1
26	Valve Seat	1
27	Throttle Valve	1
28	Spring	1
29	O-ring 14X3	1
30	O-ring	1
31	Air Inlet	1
32	Bust Screw	1
33	Band	1
34	Screen	1
35	Cover	1
36	End Plate Gasket	1
37	O-ring 45X2	2
38	Reverse Valve	1
39	O-ring 8X1.8	1
40	Back Cover	1
41	Even Washer	4
42	Hammer Case Bushing	4
43	Spring	1
44	Steel Ball	1
45	Regulator Knob	1
46	Screw	1

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

Assembly Diagram and Warranty



90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the

above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.